

Fact Sheet



For Final Significant Modification Action Under 45CSR30 and Title V of the Clean Air Act

This Fact Sheet serves to address the changes specific to this Significant Modification, and shall be considered a supplement to the original Fact Sheet corresponding with the issuance of the initial Title V operating permit issued on July 11, 2011.

Permit Number: **R30-10300006-2011**

Application Received: **June 6, 2012**

Plant Identification Number: **10300006**

Permittee: **Dominion Transmission, Inc.**

Facility Name: **Hastings Compressor Station**

Mailing Address: **445 West Main Street
Clarksburg, WV 26301**

Permit Action Number: SM01

Revised: November 27, 2012

Physical Location:	Pine Grove, Wetzel County, West Virginia
UTM Coordinates:	528.64 km Easting • 4377.66 km Northing • Zone 17
Directions:	From Clarksburg take Route 20 North approximately 37 miles to Hastings Station is on left side of the road.

Facility Description

Hastings Compressor Station is a natural gas facility covered by Standard Industrial Classification (SIC) Code 4922. The station has the potential to operate seven (7) days per week, twenty-four (24) hours per day. This facility (compressor station) includes three adjacent facilities covered by one Title V permit:

- 1) Hastings Station – production facility,
- 2) Mockingbird Hill Station (underlying permit - R13-2555B) – transmission facility,
- 3) Lewis Wetzel Station (underlying permit - R13-2870A) – transmission facility.

It consists of the following equipment: two (2) 500 HP Cooper GMXE-6 engines, one (1) 3,550 HP Caterpillar Model 3612 Compressor Engine, one (1) 530 HP Cummins Model KTA19G Auxiliary Generator, three (3) 80 HP Capstone Microturbines, one (1) 8175 HP Solar Taurus 60 Turbine, one (1) 1.25

MMBtu/hr and one (1) 4.5 MMBtu/hr natural gas fired boilers, one (1) 7.5 mmscf/day glycol dehydration unit with flare, one (1) 0.38 MMBtu/hr reboiler, one (1) 10.0 MMBtu/hr pipeline heater, ten (10) storage tanks of various sizes, and one (1) natural gas fired auxiliary generator rated at 350HP for emergency use.

This significant modification is related to the Mockingbird Hill Station and based on recently revised permit R13-2555B. It covers installation of Generac Model QT080 80 kW, 128 hp, 4-stroke lean-burn natural gas-fired engine (002-06, AUX06). The purpose of the emergency generator is to provide local power when power from the grid is interrupted and is proposed to be limited to 500 hours of use per year. The engine family (CGNXB06.82NL) is certified by USEPA as in compliance with the standards under 40 CFR 60, Subpart JJJJ. This change does not affect the function or process of the facility.

This significant modification also includes changes covered by recently issued permit R13-2870A related to Lewis Wetzel Station. The model name of the 530 HP auxiliary generator AUX05 was changed by the manufacturer from KTA19SLB to KTA19G (without any changes in emissions or processes).

Emissions Summary

The following emission changes are associated with this modification:

Regulated Pollutants	PTE change, TPY
NO _x	+ 0.29
CO	+ 5.14
VOC	+ 0.10
PM	< + 0.01
SO ₂	< + 0.01

Title V Program Applicability Basis

With the proposed changes associated with this modification, this facility maintains potential to emit over 100 TPY of NO_x, CO and VOCs. Due to this facility's potential to emit over 100 tons per year of criteria pollutant, Dominion Transmission, Inc. is required to have an operating permit pursuant to Title V of the Federal Clean Air Act as amended and 45CSR30.

Legal and Factual Basis for Permit Conditions

The State and Federally-enforceable conditions of the Title V Operating Permits are based upon the requirements of the State of West Virginia Operating Permit Rule 45CSR30 for the purposes of Title V of the Federal Clean Air Act and the underlying applicable requirements in other state and federal rules.

This facility has been found to be subject to the following applicable rules:

Federal and State:	45CSR13	Pre-construction permit
	45CSR16	Standards of Performance for New
		Stationary Sources Pursuant to 40CFR60
	40 C.F.R. Part 60, Subpart JJJJ	Standards of Performance for Stationary
		Spark Ignition Internal Combustion Engines
	40 C.F.R. Part 63, Subpart ZZZZ	National Emission Standards for Hazardous
		Air Pollutants for Stationary Reciprocating
	45CSR30	Operating permit requirement

Each State and Federally-enforceable condition of the draft Title V Operating Permit references the specific relevant requirements of 45CSR30 or the applicable requirement upon which it is based. Any condition of the draft Title V permit that is enforceable by the State but is not Federally-enforceable is identified in the draft Title V permit as such.

The Secretary's authority to require standards under 40 C.F.R. Part 60 (NSPS), 40 C.F.R. Part 61 (NESHAPs), and 40 C.F.R. Part 63 (NESHAPs MACT) is provided in West Virginia Code §§ 22-5-1 *et seq.*, 45CSR16, 45CSR34 and 45CSR30.

Active Permits/Consent Orders

Permit or Consent Order Number	Date of Issuance	Permit Determinations or Amendments That Affect the Permit (<i>if any</i>)
R13-2555B	September 17, 2012	
R13-2870A	August 30, 2012	

Conditions from this facility's Rule 13 permit(s) governing construction-related specifications and timing requirements will not be included in the Title V Operating Permit but will remain independently enforceable under the applicable Rule 13 permit(s). All other conditions from this facility's Rule 13 permit(s) governing the source's operation and compliance have been incorporated into this Title V permit in accordance with the "General Requirement Comparison Table B," which may be downloaded from DAQ's website.

Determinations and Justifications

1. Emission Units Table – AUX06 engine was added and model of AUX05 was changed.
2. Requirements 7.1.9, 7.2.1, 7.2.2 and 7.3.4 were added based on R13-2555B requirements.
3. Requirement 7.1.10 was added to include the 40 C.F.R. 63 Subpart ZZZZ provision applicable to emergency generator AUX06. Per §63.6590(a)(2)(iii), this SI engine is considered a new unit (area source unit constructed on or after June 12, 2006). Therefore, per §63.6590(c)(1), it is only subject to 40CFR60 Subpart JJJJ provisions.

Engine	Design Capacity	Ignition	Use/Type	Year installed	Source of HAPs
AUX06	128 HP	Spark (SI)	Emergency, 4SLB	2012 (new)	Area source

4. Requirements 7.1.11, 7.3.5, 7.4.2 and 7.5.3 were added to include applicable provisions of 40CFR60 Subpart JJJJ. 40 C.F.R. 60 Subpart JJJJ, Table 1 sets forth emission limits for the generator (requirement 7.1.11). Also, emission limits were included in the permit requirement 7.1.9 (R13-2555B requirement 4.1.6(b)) based on the generator's certification by USEPA in compliance with the standards under 40 C.F.R. 60, Subpart JJJJ. As shown in the Table below, permit limits are established well below the 40 C.F.R. 60 Subpart JJJJ emission standards, and are in compliance with these standards:

Pollutant	R13-2555B limits	Subpart JJJJ Table 1 emission standards	
	LB/hr	g/HP-hr	LB/hr
CO	20.57	387	109.2
NO _x	1.14	10	2.82
VOC	0.39	N/A	N/A

Since the emergency generator AUX06 is certified by USEPA as in compliance with the standards under 40 C.F.R. 60, Subpart JJJJ, it is not subject to testing if it is operated and maintained according to the manufacturer's written emission-related instructions. Otherwise, initial performance testing is required as per §60.4243(f). The testing needs to be performed in accordance with §§60.4244(a) through (g) (requirement 7.3.5) and reporting should be done per §60.4245 (d) (requirement 7.5.3).

5. Changed the model for AUX05 in conditions 8.1.2 and 8.1.4.

Non-Applicability Determinations

The following requirements have been determined not to be applicable to the subject facility due to the following:

1. Compliance Assurance Monitoring (CAM) Plan - the emergency generator AUX06 is not considered a PSEU because its emissions are below Title V Major Source applicability threshold, and it doesn't have a control device, therefore CAM is not applicable.
2. There are no Greenhouse Gas Clean Air Act requirements for this facility because the facility has not made any changes that triggered a PSD permit modification.

Request for Variances or Alternatives

None.

Insignificant Activities

Insignificant emission unit(s) and activities are identified in the Title V application.

Comment Period

Beginning Date:	October 10, 2012
Ending Date:	November 9, 2012

All written comments should be addressed to the following individual and office:

Natalya V. Chertkovsky-Veselova
Title V Permit Writer
West Virginia Department of Environmental Protection
Division of Air Quality
601 57th Street SE
Charleston, WV 25304

Procedure for Requesting Public Hearing

During the public comment period, any interested person may submit written comments on the draft permit and may request a public hearing, if no public hearing has already been scheduled. A request for public hearing shall be in writing and shall state the nature of the issues proposed to be raised in the hearing. The Secretary shall grant such a request for a hearing if he/she concludes that a public hearing is appropriate. Any public hearing shall be held in the general area in which the facility is located.

Point of Contact

Natalya V. Chertkovsky-Veselova
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Division of Air Quality
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Charleston, WV 25304
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Response to Comments (Statement of Basis)

N/A